

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

FIG. 1A PRIOR ART

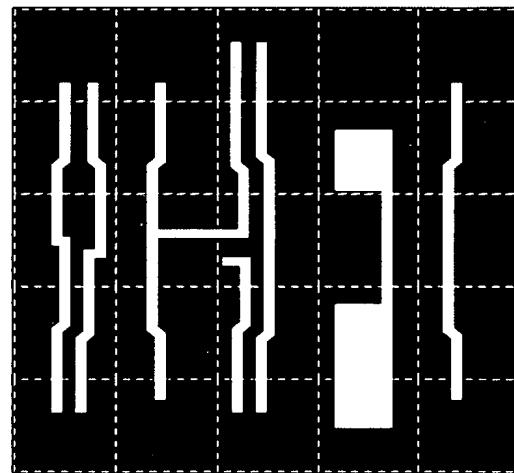


FIG. 1B PRIOR ART

$T(i-2, j-2)$	$T(i-1, j-2)$	$T(i, j-2)$	$T(i+1, j-2)$	$T(i+2, j-2)$
$T(i-2, j-1)$	$T(i-1, j-1)$	$T(i, j-1)$	$T(i+1, j-1)$	$T(i+2, j-1)$
$T(i-2, j)$	$T(i-1, j)$	$T(i, j)$	$T(i+1, j)$	$T(i+2, j)$
$T(i-2, j+1)$	$T(i-1, j+1)$	$T(i, j+1)$	$T(i+1, j+1)$	$T(i+2, j+1)$
$T(i-2, j+2)$	$T(i-1, j+2)$	$T(i, j+2)$	$T(i+1, j+2)$	$T(i+2, j+2)$

FIG. 1C PRIOR ART

0.03	0.02	0.08	0	0.02
0.25	0.13	0.25	0.70	0.13
0.25	0.20	0.30	0.13	0.13
0.25	0.13	0.25	0.80	0.13
0.05	0.02	0.05	0.70	0.02

FIG. 2

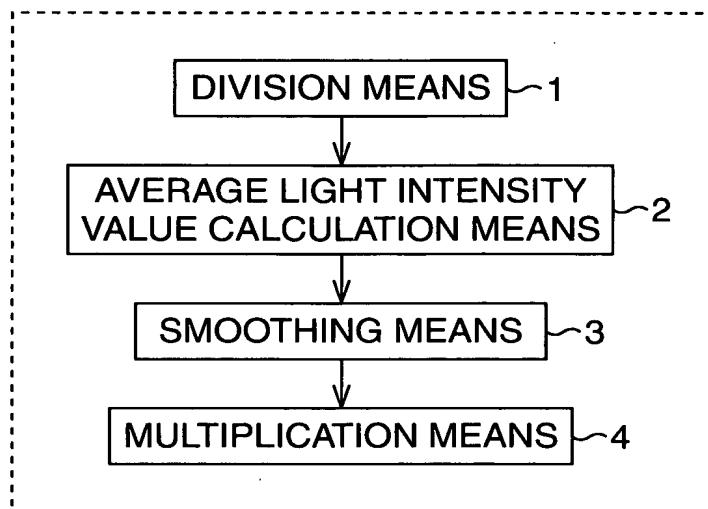


FIG. 3

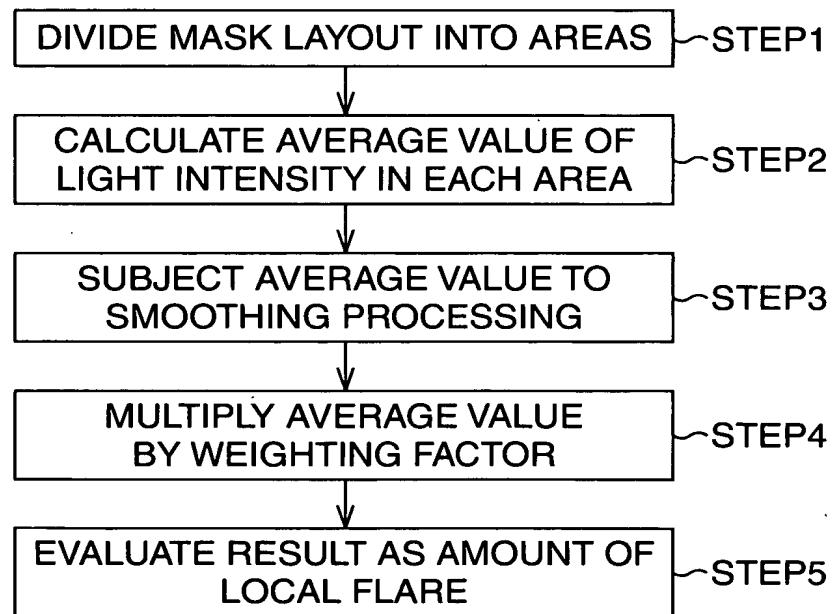


FIG. 4A

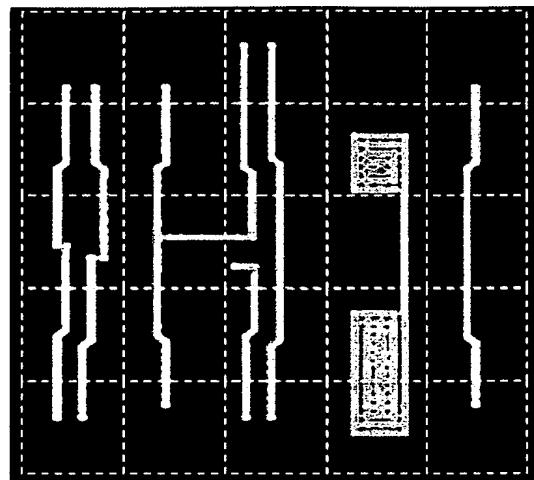


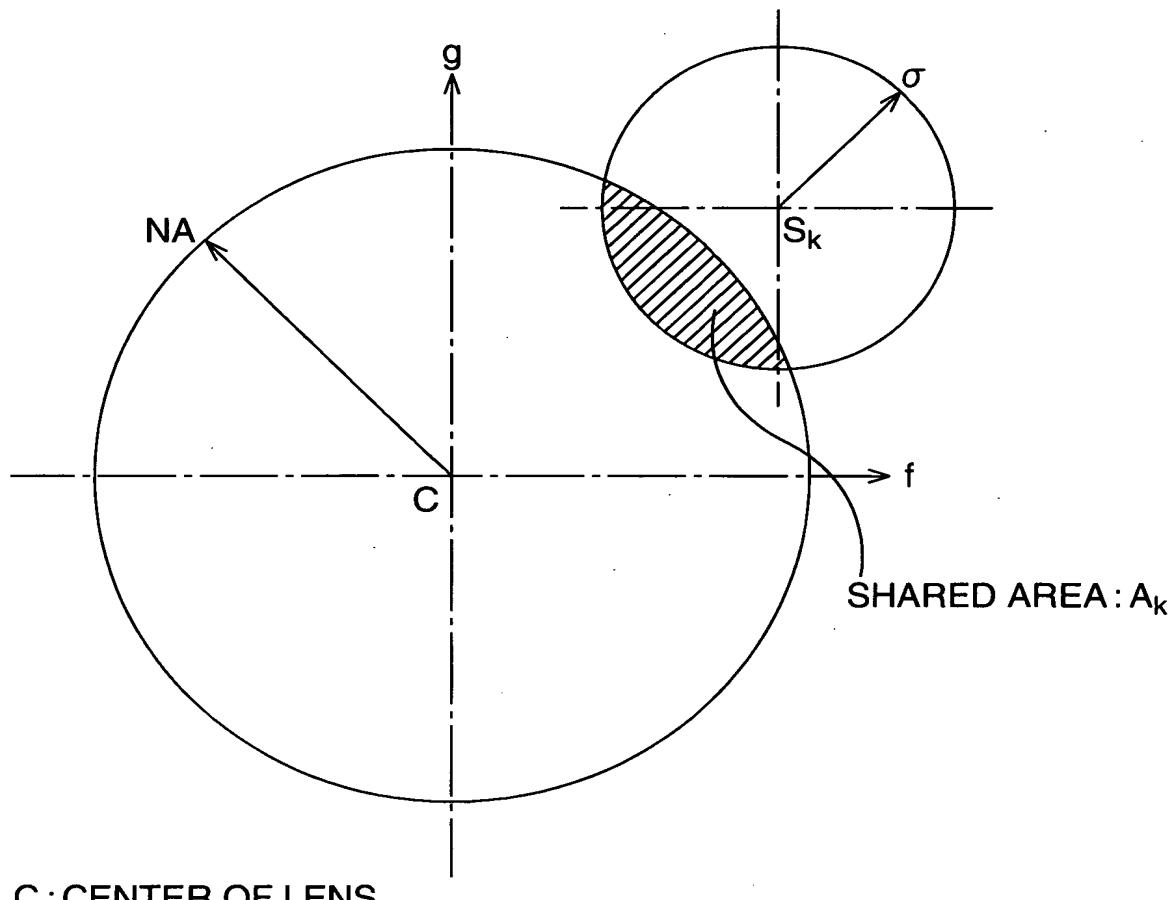
FIG. 4B

$l(i-2, j-2)$	$l(i-1, j-2)$	$l(i, j-2)$	$l(i+1, j-2)$	$l(i+2, j-2)$
$l(i-2, j-1)$	$l(i-1, j-1)$	$l(i, j-1)$	$l(i+1, j-1)$	$l(i+2, j-1)$
$l(i-2, j)$	$l(i-1, j)$	$l(i, j)$	$l(i+1, j)$	$l(i+2, j)$
$l(i-2, j+1)$	$l(i-1, j+1)$	$l(i, j+1)$	$l(i+1, j+1)$	$l(i+2, j+1)$
$l(i-2, j+2)$	$l(i-1, j+2)$	$l(i, j+2)$	$l(i+1, j+2)$	$l(i+2, j+2)$

FIG. 4C

0.02	0.01	0.06	0	0.01
0.20	0.10	0.20	0.56	0.10
0.20	0.16	0.24	0.10	0.10
0.20	0.10	0.20	0.64	0.13
0.04	0.01	0.04	0.56	0.01

FIG. 5



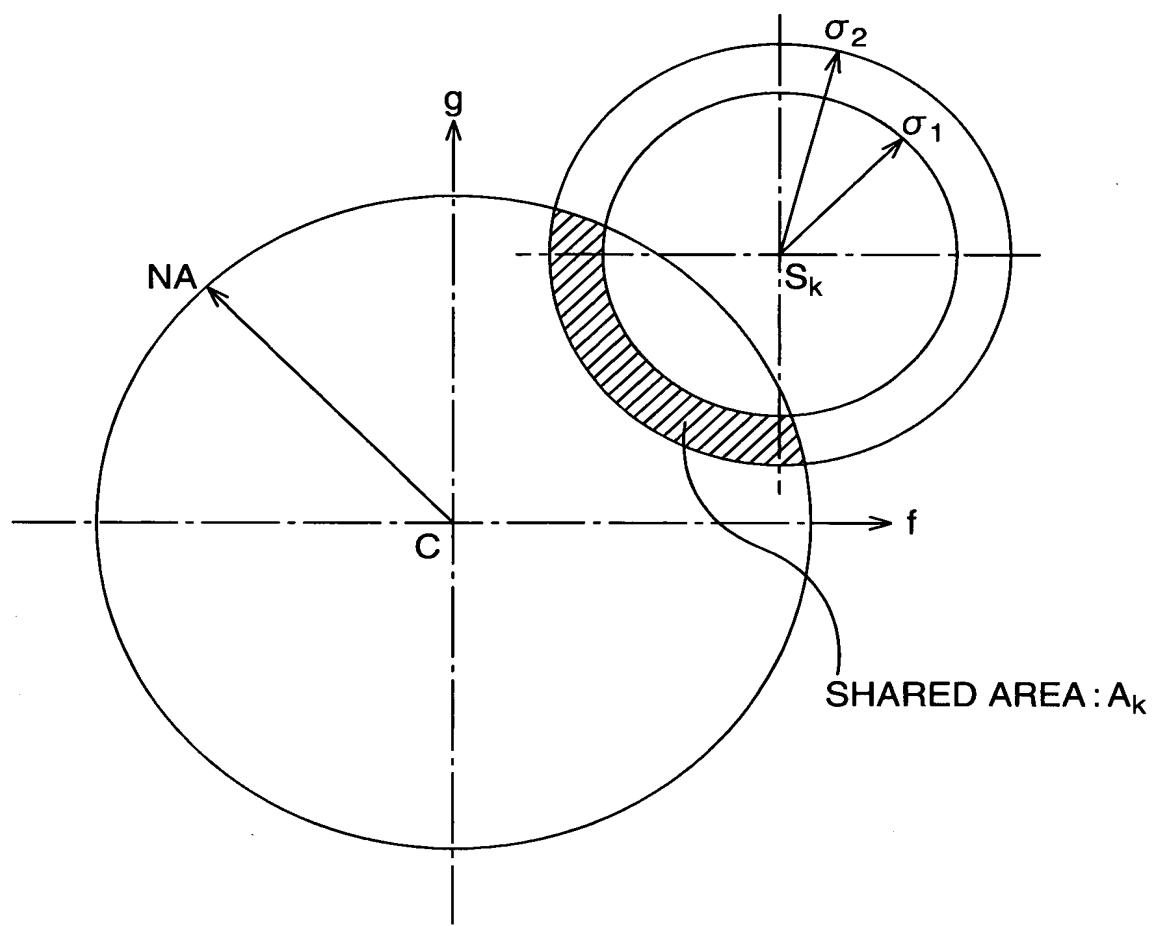
C : CENTER OF LENS

S_k : POSITION OF DIFFRACTED LIGHT

NA : NUMERICAL APERTURE OF LENS

σ : DIAMETER OF LIGHT SOURCE WITH RESPECT TO NA
(INTERFERENCE FACTOR)

FIG. 6



C : CENTER OF LENS

S_k : POSITION OF DIFFRACTED LIGHT

NA : NUMERICAL APERTURE OF LENS

σ_1 : INTERNAL DIAMETER OF RING-SHAPED LIGH SOURCE WITH
RESPECT TO NA

σ_2 : EXTERNAL DIAMETER OF RING-SHAPED LIGH SOURCE WITH
RESPECT TO NA

FIG. 7

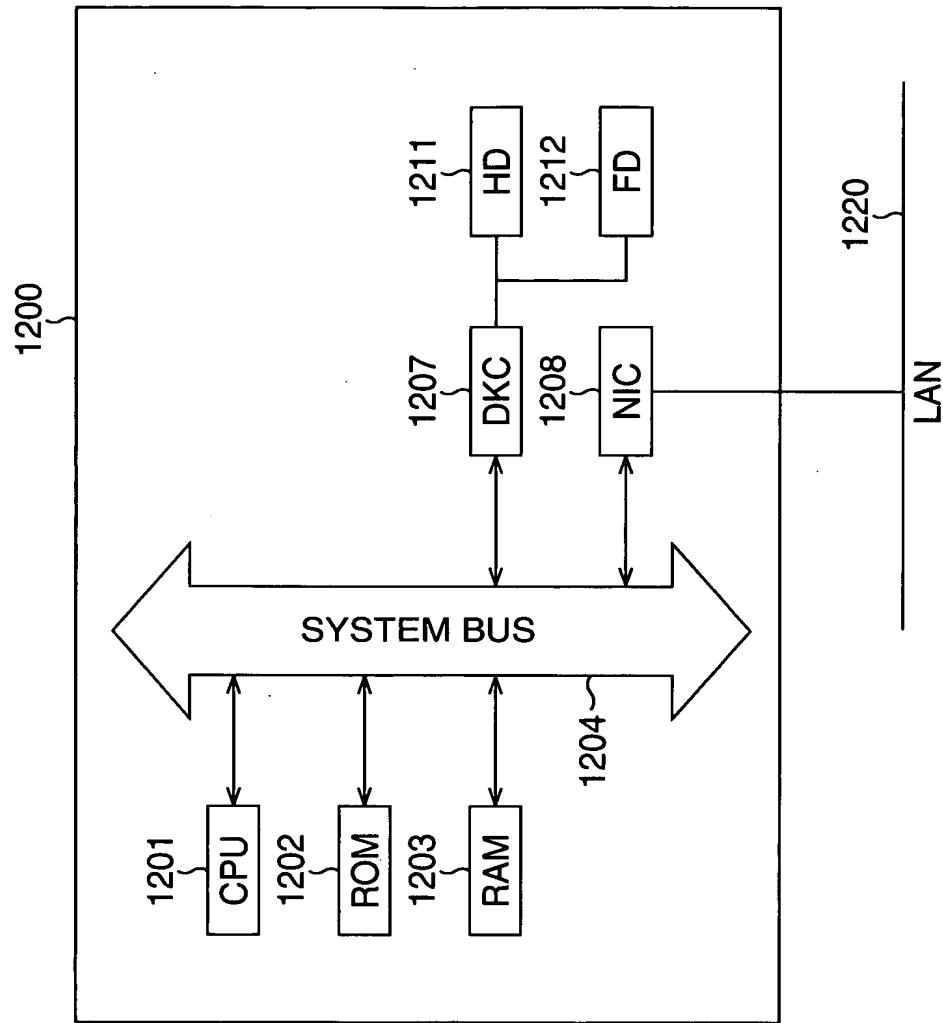


FIG. 8

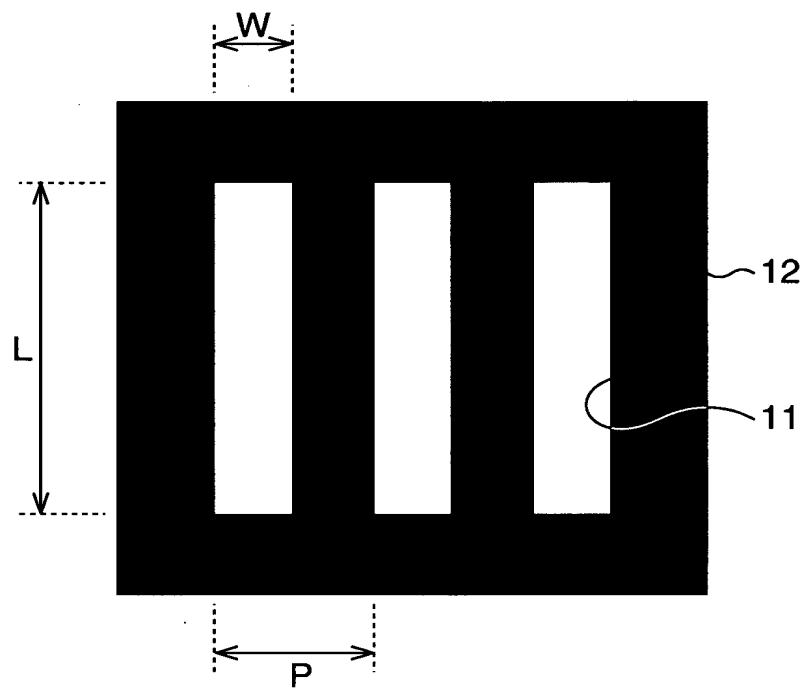


FIG. 9

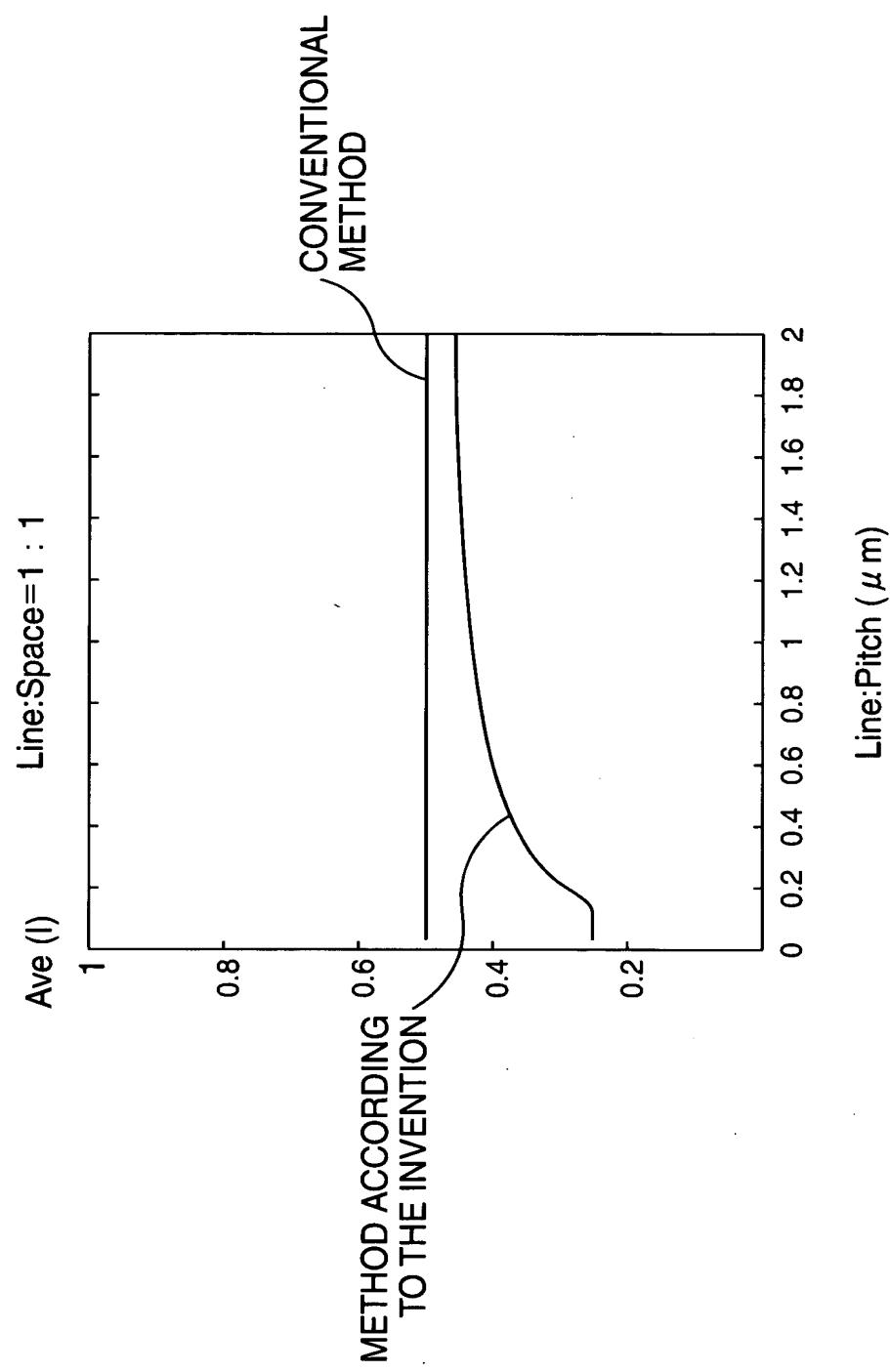


FIG. 10

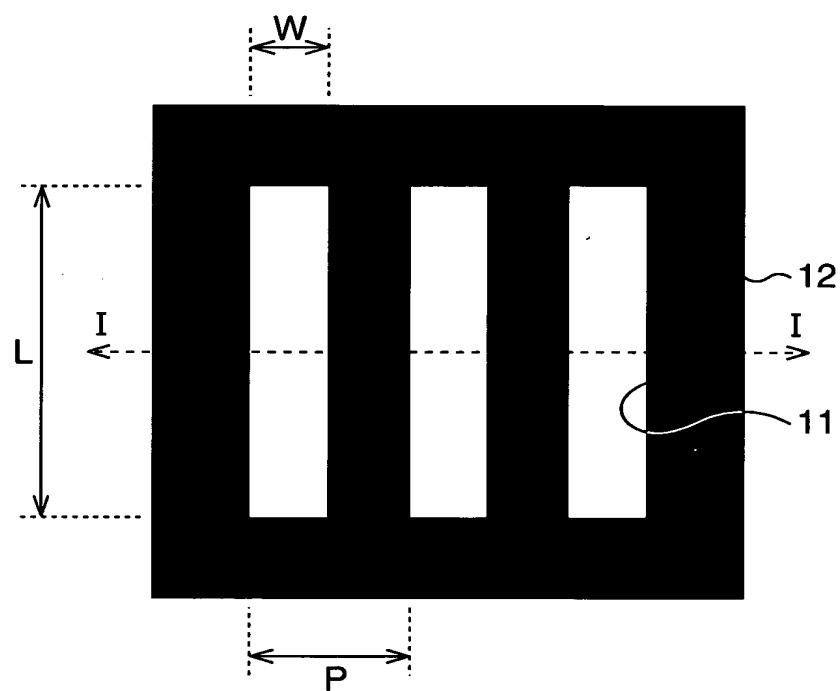


FIG. 11

